

Semenikhin D.V.

✓ 2031. STRUGGLE FOR HIGH PERFORMANCE FIGURES (IN COAL MINING).
Semenikhin, D.V. (Mekhan. Trud. tyazhel. Rabot (Mech. arduous Wk, Moscow),
Aug. 1955, 15-18). Some figures are given for output. Those for the OGPU
mine, the largest in Donbass, show an increase in daily output from 4336 to
7008 tons, and in output per man-months from 41.8 to 64.3 tons from 1950 to
1955.

GP
FU

SEMENIKHIN, Gennadiy Aleksandrovich (1919-); TSAREV, F., glav.
red.; GONCHARENKO, Yu., tekhn. red.

[Stories about astronauts] Rasskazy o kosmonavtakh.
Moskva, Voen.izd-vo M-va oborony SSSR, 1963. 46 p.
(Bibliotekha zhurnala "Sovetskii voen," no.15(466))
(MIRA 17:2)

SEMENIKHIN, I.V.; YEVSTIGNEYEV, R.I.

Shaving gears on parallel axles. Av.prom. 26 no.8:88-89 Ag '57.
(MIRA 15:4)

(Gear cutting)

SEMENIKHIN, N.

Stalinogorsk makes progress in city improvement. Zhil.-kom.khoz.
4 no.7:11-12 '54. (MLRA 8:1)

1. Zamestitel' predsedatelya Stalinogorskogo gorispolkoma.
(Stalinogorsk--City planning)

SEMENIKHIN, N.

Twenty-fifth anniversary of Stalinogorsk. Zhil.-kom. khoz. 8
no.11:4-6 '58. (MIRA 11:12)

1. Predsedatel' ispolkoma Stalinogorskogo gorodskogo Soveta deputatov
trudyashchikhsya.

(Stalinogorsk--Municipal services)

SEMENIKHIN, N.

Health Day in Stalinogorsk. Zdrav.Ros.Fed. 3 no.10:10-12 0 '59.

(MIRA 13:1)

1. Predsedatel' ispolkoma Stalinogorskogo gorsoveta.
(STALINOGORSK--PUBLIC HEALTH)

RUSANOV, V.T.; GUR'YEV, I.D., master; KOCHENKOV, V.V., osmotrshchik-avtomatchik; SUKINOV, S.I., osmotrshchik-avtomatchik; SEMENIKHIN, N.A., osmotrshchik-prolazchik; MALYGINA, N.A., slesar'-avtomatchik; MANTAK, A.I., inzh.-tekhnolog; MALOV, G.A., instruktor; POTAPOV, A.L., mashinist elektrovoza; KOVRIZHKIN, N.P.; PATEYUK, I.L., starshiy inzh. po tormozam

Discussion of Boiko and Senderov's article "Is there a need for emergency braking boosters on freight trains?" Elek.i tepl. tiaga 5 no.12:26-27 D '61. (MIRA 15:1)

1. Punkt tekhnicheskogo osmotra stantsii Magnitogorsk Yuzhno-Ural'skoy dorogi.
 2. Nachal'nik punkta tekhnicheskogo osmotra stantsii Magnitogorsk Yuzhno-Ural'skoy dorogi (for Rusanov).
 3. Depo Tuapse Severo-Kavkazskoy dorogi (for Potapov).
 4. Starshiy revizor sluzhby lokomotivnogo khozyaystva Moskovskoy dorogi (for Kovrizhkin).
 5. Sluzhba vagonnogo khozyaystva Moskovskoy dorogi (for Pateyuk).
- (Railroads--Brakes)

SEMENIKHIN, P.G.; DUNIN-BARKOVSKIY, I.V., kand. tekhn. nauk,
retsenzent; RECHMENSKIY, I.N., kand. tekhn. nauk, red.;
IVANOVA, N.A., red.izd-va; EL'KIND, V.D., tekhn. red.

[Selection of an efficient roughness of machine-part
surfaces] Vybór ratsional'noi sherokhovatosti poverkh-
nosti detalei mashin. Moskva, Mashgiz, 1964. 100 p.
(MIRA 17:3)

~~SECRET~~ ~~SECRET~~, P.V.

Designing dynamically loaded sliding bearings. Trudy KAI 29:107-
122 '55. (MLBA 10:6)

(Bearings (Machinery))

L 29557-66 EWP(j)/ENT(d)/ENT(m)/T/FSS-2/EWP(f) IJP(c) TI/RM/WW/DJ

ACC NR: AP6017830

SOURCE CODE: UR/0147/66/000/002/0074/0082

AUTHOR: Semenikhin, P. V.

ORG: none

TITLE: Parameters and weight characteristics of vernier engines

SOURCE: IVUZ. Aviatzionnaya tekhnika, no. 2, 1966, 74-82

TOPIC TAGS: vernier engine, rocket trajectory, vernier rocket, rocket engine, thrust vector control

ABSTRACT: A theoretical analysis was conducted of a cold gas-type vernier rocket system to determine the effect of the working gas on the specific impulse and on the weight of the gas feed tank. The specific impulse developed by a vernier rocket was calculated using nitrogen, helium, hydrogen, oxygen, krypton, and argon as working fluids. The obtained results indicate that a deviation of $(RT)^*$, where R is the gas constant, and T is the gas temperature, from the optimum value results in a considerable reduction in the specific impulse. The specific impulse developed by 75% mixture of nitrogen and helium was found to be 10% higher than that of nitrogen alone. Since the gas temperature in the tank is limited, the selection of the gas determines the type of material for the tank. For example, nitrogen, oxygen, and ethylene are considered to be optimum working fluids for feed tanks made of fiberglass. The effects on the specific impulse of the gas expansion in the reduction valve and in the

Card 1/2

UDC: 629.194.24

L 29557-66

ACC NR: AP6017830

nozzle and of the nozzle gas inlet temperature were also analyzed. It is noted that the efficiency of a vernier rocket can be improved by preheating the feed gas. Orig. [AS]

art. has: 28 formulas, 1 figure, and 2 tables.

SUB CODE: 21/ SUBM DATE: 03Jul65/ ORIG REF: 002/ ATD PRESS: 50/5

Card 2/2 d.c.

SEMENIKHIN, S.F., inzh.

New drilling unit. Avt. dor. 24 no.10:18 0 '61. (MIRA 14:11)
(Boring machinery)

SEMENIKHIN, S.F., inzh.

Drilling unit with rotary and percussion action. Avt.dor. 24
no.12:20-21 D '61. (MIRA 14:12)

(Boring machinery)

SEMENIKHIN, S. F., inzh.

Preparing road machinery for winter work. Avt. dor. 25 no.10:
31-3 of cover 0 '62. (MIRA 15:10)

(Road machinery—Maintenance and repair)

L 26073-65 EWP(e)/EWT(m)/EWP(b) Pq-4 WH

ACCESSION NR: AP5006760

s/0286/64/000/020/0052/0052

AUTHOR: Semenikhin, V. F.; Ozerov, A. P.; Troynich, A. N.

TITLE: Press for production of glass articles. Class 32, No. 165866 16 11 5

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1964, 52

TOPIC TAGS: glass manufacturing machinery, nonmetal press

Translation: A press for production of glass articles of the type of cathode-ray tubes, including a rotating table with matrixes, vacuum adjuster and a crossarm with an automatically adjusting plunger and press cylinder mounted on it, differs in that (with the goal of a reduction of the period of idleness of the plunger and assuring the stability of the rotating table in the process of pressing) of the crossarm of the press there is mounted an additional power cylinder with a casing and plunger mounted under it, and under the rotating table, in one vertical plane with the automatically adjusting plunger, an additional power cylinder is also mounted. Orig. art. has: 1 figure.

Card 1/2

L 26073-65

ACCESSION NR: AP5006760

ASSOCIATION: Orlovskiy nauchno-issledovatel'skiy institut legkogo mashinostroyeniya
(Orlov Scientific-Research Institute of Light Machinery Building)

SUBMITTED: 14Aug63

ENCL: 00

SUB CODE: IE, MF

NO REF SOV: 000

OTHER: 000

JPRS

Card 2/2

SEMENIKHIN, V. K. (Leningrad)

Transfer functions of automatic control systems with linearly
varying parameters. Avtom. i telem. 23 no.11:1421-1430 N '62.
(MIRA 15:10)

(Automatic control)

SEMENIKHIN, Ye.M., inzh.

Reconditioning thermocouples. Za indus.Riaz. no.2:54-55 D '61.
(MIRA 16:10)

1. Priometricheskaya laboratoriya Ryazanskogo zavoda shchetno-
analiticheskikh mashin.

L 47749-55 EWT(m)/EPF(c)/EWP(v)/T/EWP(j)/EPR Fc-4/Pr-4, Pa-4 WW/RM 35

ACCESSION NR: AP5012424

UR/0374/65/000/002/0015/0020

AUTHOR: Maloshuk, Yu. S. (Moscow); Rayevskiy, V. G. (Moscow); Semenikhina, A. A. (Moscow); Voyutskiy, S. S. (Moscow)

TITLE: Cohesion of industrial elastomeric systems. 1. Effect of the compatibility of the plasticizer and elastomer on cohesion strength /5

SOURCE: Mekhanika polimerov, no. 2, 1965, 15-20

TOPIC TAGS: elastomer, plasticizer, compatibility, cohesion

ABSTRACT: A study has been made of the compatibility of plasticizers with polymers, of the cohesion strength of plasticized elastomeric systems, and of the relationship between this cohesion and compatibility. The experiments were conducted with (polar) nitrile rubber (SKN-40) and (nonpolar) polyisobutylene and the following plasticizers or their mixtures: dibutyl phthalate, PN-6 oil (molecular weight, 482; aromatic fraction, 90%; paraffin-naphthene hydrocarbons, 2.3%; resins, 6.7%), and industrial and medical mineral oils. Compatibility was estimated from swelling kinetics curves. For the case of (polar) SKN-40, compatibility increased with the polarity of the plasticizer. Dibutyl phthalate was shown to be fully compatible with this rubber. For the case of (nonpolar) PN-6, compatibility dropped with the polarity of the plasticizer. The cohesion strength of plasticized elastomeric systems.

Card 1/2

L 47749-65

ACCESSION NR: AP5012424

tems was determined by stripping tests. Curves of cohesion strength versus holding time (under a 100 g/cm² compressive load) were plotted. The cohesion strength of the systems increased with compatibility. Curves of cohesion strength versus maximum swelling of plasticized systems were plotted. From these curves it was concluded that the cohesion strength is directly proportional to compatibility. Orig. art. has: 6 figures and 1 table. [B0]

ASSOCIATION: none

SUBMITTED: 01Dec64

NO REF SOV: 011

ENCL: 00

OTHER: 002

SUB CODE: MT, FP

ATD PRESS: 4004


Card 2/2

L 3162-66 EWT(m)/EPF(c)/EWP(j) RM

ACCESSION NR: AP5016886

UR/0374/65/000/003/0077/0080
678:532.6

AUTHOR: Maloshuk, Yu. S. ⁴⁴ (Moscow); Rayevskiy, V. G. ⁴⁴ (Moscow); Semenikhina, A. A. ²⁵
(Moscow); Voyutskiy, S. S. ⁴⁴ (Moscow) ⁴⁴

TITLE: Cohesion of industrial elastomeric systems. 2. Effect of the amount of added plasticizer on cohesion strength ¹⁵

SOURCE: Mekhanika polimerov, no. 3, 1965, 77-80 ¹⁵

TOPIC TAGS: cohesion strength, nitrile rubber, monopolar polyisobutylene, plasticized system ⁴⁴

ABSTRACT: A study has been made of the effect of the amount of different plasticizers on the cohesion strength of elastomeric systems. The experiments were conducted with (polar) SKN-40 nitrile rubber and (nonpolar) P-200 polyisobutylene. The rubbers were plasticized with dibutyl phthalate, PN-6 oil, or vaseline oil, which exhibit varying compatibility with the rubbers. The plasticizers were added in amounts (7-50 vol%) which would not affect the processability of the systems. The results of the study, given in tabular form, indicated that: 1) cohesion strength increases monotonically with an increase in the amount of compatible plasticizer; 2) the cohesion strength drops continuously with an increase in the amount

Card 1/2

SOFIYEV, M.S.; SEMENIKHINA, A.D.

Effect of DDT preparations upon ticks of the Argasidae family.
Med.paraz.i paraz.bol. no.6:536-538 N-D '53. (MLRA 6:12)

1. Iz kafedry biologii Tashkentskogo meditsinskogo instituta.
(Ticks) (DDT (Insecticide))

SOFIYEV, M.S.; SEMENIKHINA, A.D.

Method of tick control with DDT and hexachlorane. Med. paraz. i paraz.
bol. no.4:353-354. O-D '54. (MLRA 8:2)

1. Iz kafedry obshchey biologii Tashkentskogo meditsinskogo instituta
imeni V.M.Molotova.

(DDT,

ticks control)

(BENZENE HEXACHLORIDE,

ticks control)

(TICKS,

eradication with benzene hexachloride & DDT)

SEMENIKHINA, A. D.

Semenikhina, A. D. - "The Effect of DDT and Hexachlorane on Ticks -
Alectoribius tholozani papillipes (Birula) - the Carriers of Spirochetosis."
Published by SAGU. Min Higher Education USSR. Central Asia State U imeni V.
I. Lenin. Tashkent, 1955 (Dissertation for the Degree of Candidate in
Biological Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127

SEMIKHINA, A.D.

CARRIERS

"On the Question of Mosquitoes' Breeding Places under the Conditions Prevalent in the City of Tashkent", by L.V. Yegorova and A.D. Semikhina, Za Sotsial'noye Zdravookhraneniye Uzbekistana, 1956, 4, pp 67-69 from (Meditsinskiy Referativnyy Zhurnal, Section 4, No 1, 1957).

In 1949-1950, the authors looked for the places where mosquitoes breed in the foci of infection of both human and canine leishmaniasis in 2 districts of Tashkent. In order to uncover the peculiarities of the mosquitoes' life, soil from the burrows of rodents, birds' nests, stables, dog houses, lavatories, etc. was examined. It is concluded that the highest number of mosquitoes appear at the end of June and the beginning of July, and in the middle of August; moreover it is said that the prevalent genus of these "mosquitoes" was the sandfly, *Phlebotomus papatasi*. In 2 samples of soil, mosquitoes' skins and segments of their larvae were found.

Card 1/1

- 9 -

DOBOVOL'SKIY, B. V., KUZNETSOV, K. A.,
SELENIKHINA, I. N.

Oak

Measure for increasing the productivity of oak trees. Les. Khoz. 5 no. 4, 1952

2

9. Monthly List of Russian Accessions, Library of Congress, August 1953, Uncl.

FERDINAND, Ya.M. (Rostov-na-Donu); Primali uchastiye: MARISOVA, A.P.;
 BRAYNINA, R.A.; MARGULIS, L.A.; MYASNENKO, A.M.; KOVALEVSKAYA,
 I.L.; TELESHEVSKAYA, E.A.; SOBOLEVA, S.V.; KALININA, K.I.;
 KOVALEVA, N.S.; IVANOVA, M.K.; ARENDER, B.A.; KUCHERENKO, R.A.;
 MANATSKOVA, K.S.; OLEYNIKOVA, L.T.; KIBARDINA, Yu.A.;
 GRIGOR'YEVA, K.S.; SEMENIKHINA, L.G.; CHERNYKH E.I.; DOROFEYeva,
 V.M.; SHEVCHENKO, Ye.N.; ABRAMOVA, O.K.; SKUL'SKAYA, S.D.;
 PETROVA, Z.I.; MAKHLINOVSKIY, L.I.; KUZ'MINA, A.I.; AL'TMAN, R.Sh.;
 MARDERER, R.G.; YENGALICHEVSKAYA, L.N.; CHIRKOVA, M.N.; TERESHCHENKO,
 N.I.; SHELKOVNIKOVA, M.A.; PROKOPENKO, V.V.; BEKLEMESHEVA, Ye.;
 BARANOVA, T.V.

Effectiveness of specific prophylaxis with alcohol divaccine
 against typhoid and paratyphoid B fever in school-age children.
 Zhur. mikrobiol., epid. i immun. 41 no.1:23-27 Ja '64.

(MIRA 18:2)

L 63585-65 EWT(m)/EWG(m) RM/RKH/GS

ACCESSION NR: AT5013639

UR/0000/65/000/000/0080/0085
66.074.8; 546.791.6

14
B+

AUTHOR: Iaskorin, B. N.; Slesareva, D. D.; Semenikhina, L. A.

TITLE: Ion-exchange behavior of uranyl in hydrochloric acid media. Separation of uranium, sulfate, and phosphate in the process of desorption

SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Radiokhimicheskiye metody opredeleniya mikroelementov (Radiochemical methods for determining trace elements); sbornik statey. Moscow, Izd-vo Nauka, 1965, 80-85

TOPIC TAGS: column chromatography, uranium separation, anion exchange resin, uranyl ion, uranium desorption

ABSTRACT: A study was made of the influence of HCl concentration on the process of sorption of hexavalent uranium by anion exchangers of different basicities containing amino and pyridinium groups, under static conditions. The results obtained were used in the separation of uranium, phosphate, and sulfate ions in the process of desorption. As the HCl concentration increases (up to 6-8 M), the capacity to adsorb uranium increases, the adsorption of strongly basic exchangers being more effective than that of weakly or moderately basic ones. The sorption

Card 1/2

L 63585-65

ACCESSION NR: AT5013639

of uranium is explained by the formation, in concentrated HCl media, of anionic chloride complexes which have a great affinity for the anion exchangers. For this reason, treatment with concentrated HCl of an anion exchanger saturated with uranium from sulfate solutions converts the sorbed sulfate complex to a chloride complex, this conversion being gradual. Subsequent desorption of uranium with water or a weak HCl solution (1-2%) makes it possible to achieve a 90-95% separation of uranium from sulfate and phosphate ions. The incomplete separation of uranium from ferric ions is explained by the sorption of anionic chloride complexes of iron, which are stable in concentrated HCl media. Orig. art. has: 4 figures and 3 tables.

ASSOCIATION: None

SUBMITTED: 17Jan63

ENCL: 00

SUB CODE: IC, G.C.

NO REF SOV: 003

OTHER: 002

Card ^K 2/2

SHIRKOV, I.S., kand. tekhn. nauk; SENENIKHINA, N.V.

Characteristics of the technology of knit goods manufacture
from bulked loop yarn. Tekh. prom. no.4:7-9 C-D '65.

(HRA 19:1)

SEMENIKO, Ye.G.

Action mechanism of viscous additives. Neft.khoz. 32 no.3:38-41
Mr '54. (MLRA 7:4)
(Petroleum--Refining) (Viscosity) (Butylenes)

SEMENIKOV, U.

"New circuit for an amplifier of radio signals."

So. Radio, Vol. 3, p. 31, 1952

SEMENISHCHEV A.I.

USSR/Form Animals. Horses

Q-2

Abs Jour : Ref Zhur - Biel., No 11, 1958, No 49974

Author : Semenishchev A.I.

Inst : ~~USSR Academy of Sciences~~

Title : Milking of Horses and Using Their Milk Production.

Orig Pub : S. kh. Povolzh'ya, 1957, No 6, 77-79

Abstract : No abstract.

Card : 1/1

USSR/Diseases of Farm Animals. Pathology of Reproduction

R-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 31119

Author : Sezenishchev A. [1]

Inst : -

Title : Experience in the Liquidation of Abortions in Nursing Mares

Orig Pub : Konevodstvo, 1957, No 9, 36-37

Abstract : No abstract

Card : 1/1

SEMENISHCHEV, A.I., veterinarnyy vrach.

~~SEMENISHCHEV, A.I., veterinarnyy vrach.~~
Kumiss for treating animals. Veterinariia 34 no.3:39 Mr '57. (MIRA 10:4)

1. Peschanskaya kumysolechebnitsa, Balashovskoy oblasti.
(Kumiss) (Veterinary medicine)

SEMENISHCHEV, A.I., (Veterinary Surgeon, Saratov State Station of Artificial
Insemination of Agricultural Animals)

"Treatment of superficial injuries of membrumvirile of sires."

Veterinariya, Vol 39, no 1, Jan 1962. pp 56

SEMENISHCHEV, A.I., veterinarnyy vrach

Treatment of surface lesions of the penis in studs. Veterinariia
39 no.1:56-57 Ja '62. (MIRA 15:2)

1. Saratovskaya gosudarstvennaya stantsiya iskusstvennogo
osemeneniya sel'skokhozyaystvennykh zhiivotnykh.
(Penis--Wounds and injuries)
(Artificial insemination)

SEMENTISHCHEV, YU. P.

28(2)

PLANE I BOOK EXPIRATION

807/2146

Leningrad. University

Materialy po mashinnoi perevodu; sbornik 1 (Materials on Machine Translation). Collection of Articles N° 1. Leningrad, Izd-vo Leningra univ., 1958. 228 p. 1,000 copies printed.
No contributors mentioned.

FORWORD: The book is for students, scientists, and engineers interested in machine translation.

CONTENTS: This collection of 15 articles is published as volume I of the Materials on Machine Translation. It represents the work of 25 Soviet scientists at the Leningrad University Experimental Laboratory for Machine Translation which was created in March 1958 to continue research on translating with the aid of electronic machines. Although the present volume deals with both the theoretical and the practical aspects of machine translating, the emphasis is on the compilation of algorithms for a number of languages, many of them Asiatic. There are no references.

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AVAILABILITY: Library of Congress

Card 4/4

9-15-59

(H)

AKCELMIUD, G.A.; SEMENISHIN, Ye.M.

Kinetics of extraction from a bed of a polydispersed mixture.
Izvest. VNIIT 5 no. 1/2:148-155 '63. (MIRA 17:6)

AKSEL'RUD, G.A.; SEMENISHIN, Ye.M.

Kinetics of the dissolution of a bed situated in a solid porous medium. Inzh.-fiz. zhur. 10 no.1:41-45 Ja '66.

(MIRA 19:2)

1. Politekhnikheskiy institut, L'vov. Submitted November 27, 1964.

SEMENISTYY, S. I. Inzhener

The "Donbass" cutter-loader with two cutter bars in the Pechora
Basin. Mast. ugl. 4 no.2:11 F '55. (MLRA 8:6)
(Pechora Basin--Coal mining machinery)

SEMENISTYY, S.I., gornyy inzhener.

Cases of rock extrusion during vertical shaft sinking.

Shakht.stroi. no.2:27-28 F '57.

(MLRA 10:7)

(Shaft sinking) (Earth pressure)

L 63669-55

ACCESSION NR: AR5003351

S/0271/64/000/011/B011/B012
681.142.2

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika.
Svodnyy tom, Abs. 11B72

AUTHOR: Semenistyy, V. M.; Dorozhovskiy, Ye. S.

TITLE: Universal program for processing the results of a planar strain gauging
for the "Ural" digital computer

CITED SOURCE: Sb. nauchn. rabot aspirantov L'vovsk. politekhn. in-ta, no. 2, 1963
44-49

TOPIC TAGS: data processing, strain gauge data processing, computer data processing

TRANSLATION: A universal program is suggested which permits processing the measured
deformations for several types of planar rosettes. The source-data tape is obtained
from experiments. The zone (in this case 100) is embossed on the tape. Sensor
readings in the octonary system and the type of rosette are punched in the same
frame. A pattern of frame punching of the source-data tape is shown. The entire
program of estimating deformations and stresses on the basis of the measured
relative deformations, in the planar rosette, is broken into variants which depend
Card 1/2

L 63669-65

ACCESSION NR: AR5003351

on the narrower problem of the experiment. Five variants are considered, and design formulas for each of them are given. The work program occupies the 0002-0541 storage cells in the octonary number system. The cells 0546-0666 are used for the work. The values of elastic constants and the coefficients derived therefrom can be introduced from the computer desk or by a separate tape. A pattern of the octonary-system constants on the tape is presented. Data is introduced into the machine memory at the 0700 cell. The maximum number of measurements being processed is 1599 which corresponds to 533 planar rosettes of the sensors. The tape length carrying the measurement data and the zone number is 326.5 cm. A worklength of 3.5 m is used. The zone 1 and the workprogram (zone 3) are introduced initially in the digital computer. The number $n + 0677$ (where n is the number of measurements in the octonary system) is introduced into 0023 cell. Next, the source-data tape is introduced. The variant solutions are effected by turning the corresponding switches. Calculation of one variant, a combination of several variants, or all variants is possible. A work program is presented. One illustration. Bibliography: 2 titles

SUB CODE: DP

ENCL: 00

llc
Card 2/2

SEMITITSKAYA, F. M.

Semenitskaya, F. M. "The destruction of the mensomotor rhythm in injuries to the brain",
In the collection: Nevrologiya voyen. vremeni, Vol. 1, Moscow, 1949,
p. 203-17.

SO: U-411, 17 July 1953, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949)

SEMIENIUK, I.

A search for eclipsing binaries in O — B associations. Acta
astronom 12 no.2:122-131 '62.

1. Astronomical Observatory, Warsaw University, Warsaw.

SEMENTUK, I.

Observations of the times of minima of eclipsing binaries with
apsidal motion. Postepy astronom 12 no.4:265-266 O-D '64.

SEMENIY, G. M.

"Some Problems of the Biology of Kok-Saghyz (*Taraxacum Kok-Saghyz* Rod.) in Connection With the Development of Methods for Selecting Productive Plants." Cand Biol Sci, Ukraine Sci-Res Inst of Socialized Farming, Kiev, 1953. (RZhBiol, No 5, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

SEMENKEVICH, N.

First gasoline engine in the world. Voen.znan. 25 no.9:14-15
S '49. (MIRA 12:12)

(Gas and oil engines)

SEMENKEVICH, N., inzhener

First pilot balloon to be released in the world. Kryn.rod. 3 no.9:
24 S '52. (MIRA 8:8)

1. Aviatsionnyy otdel Tsentral'nogo doma aviatsii i Protivovozdushnoy
oborony imeni M.V. Frunze. (Balloons, Pilot)

SEMENKEVICH, N.; SEMENOV, M.; GRIGOR'YEV, G.

Facts, events, people. Kryl. rod. 11 no.12:14-15 D '60.

(MIRA 14:3)

1. Metodist krayevoy stantsii yunikh tekhnikov, g. Stavropol' (for
Grigor'yev).

(Aeronautics)

SEMENKEVICH, N.

From the history of Russian aeronautics. Kryl. rod. 13 no.9:24
S '62. (MIRA 15:10)

(Aeronautics—History)

SEMENKEVICH, N.

By unbeaten tracks. Kryl. rod. 15 no.5:26 My '64.
(MIRA 17:8)

SEMENKEVICH, N.

The "Il'ia Muromets" squadron. Kryl. rod. 15 no.12:10 D '64.
(MIRA 18:3)

BUGROV, A.P.; SEMENKEVICH, S.R.; SEMENOV, A.I.; SLUTSKIY, G.V.;
SHAPIRO, I.I.; YUSUFOVICH, B Ye.: SEMENOV, S.M.. red.:
ZAYTSEVA, L.A., tekhn. red.

[Establishing norms is the basis of scientific labor
organization] Normirovanie - osnova nauchnoi organizatsii
truda. Moskva, Profizdat, 1964. 61 p. (Bibliotekhka
profsoiuznogo aktivista, no.2(74)) (MIRA 17:2)

SEMENKIN, Ivan Ivanovich; LAVRENOV, G., red.; ZHDANOVA, G., tekhn. red.

[Organization and methods of the planning of Soviet trade] Organizatsiia i metody planirovaniia sovetskoi trgovli. Barnaul, Altaiskoe knizhnoe izd-vo, 1960. 35 p. (MIRA 14:12)
(Russia—Commerce)

SEMENKIN, Ivan Ivanovich; SELIVANOVA, Yekaterina; LAVRENOV, G., red.;
ZHDANOVA, G., tekhn. red.

[Prices in Soviet commerce] TSena v sovetskoi trgovle. Barnaul,
Altaiskoe knizhnoe izd-vo, 1960. 35 p. (MIRA 14:12)
(Prices)

SEMENKIN, L., kapitan

At a new stage. Voen.vest. 41 no.10:57-59 0 '61. (MIRA 15:2)
(Military education)

ROZHKOV, I.; SEMENKIN, M., komandir korablya; ANDREYEV, A., vtoroy
pilot samoleta Il-18

The "Flight newssheet" signals. Grazhd. av. 21 no.11:28 N '64.
(MIRA 18:3)

YAKOVSKAYA, L.M., kand.med.nauk; SEMENKIN, P.A. (Moskva)

Diagnosis and therapy of tuberculous proctitis and ~~proctosigmoi-~~
ditis. Klin.med. 38 no.10:48-54 0 '60. (MIRA 13:11)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta tuberku-
leza Ministerstva zdravookhraneniya RSFSR (dir. - kand.med.nauk
V.F. Chernyshev, zamestitel' direktora po nauchnoy chasti prof.
D.D. Aseyev).

(INTESTINES--TUBERCULOSIS)

SEMENKIN, P.A.; BRILI, A.A.; KARAYCHEVA, V.H.

Surgical treatment of children and adolescents with primary tuberculosis. Probl. tub. 43 no.8:24-28 '61.

(MIRA 14 1a)

1. 1-ye legochno-khirurgicheskoye otdeleniye (zav. - kand.med. nauk P.A.Semenkin) Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza (direktor - kand.med.nauk T.P.Mochalova; zamestitel' direktora po nauchnoy chasti prof. D.D.Asayev) Ministerstva zdoravookhraneniya SSSR.

KALANDADZE, Z.F., kand. med. nauk; KOPEYKO, I.P., kand.med.nauk; SEMENKIN,
P.A., kand. med. nauk

Surgical treatment in pulmonary tuberculosis caused by Mycobacterium tuberculosis resistant to antibacterial preparations. Probl. tub. 40 no.6:48-51 '62 (MIRA 16:12)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR (dir. - kand. med. nauk T.P.Mochalova, zamestitel' direktora po nauchnoy chasti prof. D.D. Aseyev).

SEMENKIN, P.A.; KOPEYKO, I.P.

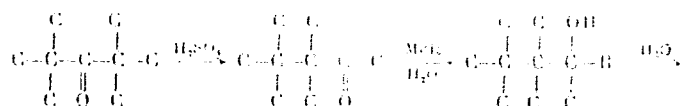
Current state of the surgical treatment of tuberculosis of the lungs. Probl.tub.41 no.11:15-21 '63. (MIRA 17:9)

1. Iz Moskovskogo nauchno-issledovatel'skogo instiuta tuberkuleza (dir. -kand.med.nauk T.P.Mochalova, zamestitel' direktora po nauchnoy chasti- prof.D.D.Aseyev) Ministerstva zdravookhraneniya RSFSR.

5.3400

30V/12-1-24/78

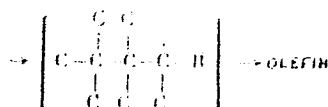
AUTHORS: Petrov, A. D., Kao Ch'In-Lan, Semonkin, V. M.
 TITLE: Reaction of 2,2,3,3-Tetramethylpentanone-4 With Alkyl-
 lithium
 PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 2, pp 363-
 369 (USSR)
 ABSTRACT: Dehydration of 2,2,3,3-tetramethylpentanol-4 (obtained
 by reaction of alkyl lithium compounds with 2,2,3,3-
 tetramethylpentanone-4, which in turn was formed by
 isomerization of hexamethylacetone) leads to formation
 of olefins, according to the scheme:



Card 1/7

Reaction of 2,2,3,3-Tetramethylpentanone-4
With Alkylolithium

77555
SOV/79-30-2-4/78



Alkylolithium compounds ($\text{C}_2\text{H}_5\text{Li}$, $\text{C}_3\text{H}_7\text{Li}$, $\text{C}_4\text{H}_9\text{Li}$, $\text{C}_5\text{H}_{11}\text{Li}$, and iso- $\text{C}_3\text{H}_7\text{Li}$) were used instead of Grignard reagents, which cause almost complete (99.5%) enolization of 2,2,3,3-tetramethylpentanone-4. With the alkylolithium compounds, 10-20% yields of tertiary alcohols are obtained (60-70% is lost as enol, the rest as other sideproducts), except in case of iso- $\text{C}_3\text{H}_7\text{Li}$, which gives only 0-5% of alcohol. Reactions were completed within 4 hr at 0-10°, except with isopropylolithium (-40°). Table 2 lists the obtained alcohols along with physical properties and results of elemental analysis (alkylolithium compounds were used in 3-4-fold excess; absolute quantities of starting materials were not given).

Card 2/7

Reaction of 2,2,3,3-Tetramethylpentanone-4
With Alkylolithium

77853
SOV/79-30-2-4/78

Key to Table 2:

(1) Structure and name of alcohol; (2) quantity (g);
(3) boiling point (pressure in mm); (4) found (%);
(5) empirical formula; (6) calculated (%). (I) 2,2,3,3,4-
-Pentamethylhexanol-4; (II) 2,2,3,3,4-Pentamethylheptanol-4;
(III) 2,2,3,3,4-Pentamethyloctanol-4; (IV) 2,2,3,3,4-
-Pentamethylnonanol-4; (V) 2,2,3,3,4,5-Hexamethylhexanol-4.

Table 2 on following card

Card 3/7

Reaction of 2,2,3,3-Tetramethylpentanone-4
With Alkylolithium

77853

807/79-30-1-4/18

Table 2

1	2	3	n_D^{20}	d_4^{20}	4			5	6		
					C	H	OH		C	H	Od
$\begin{array}{c} \text{CH}_3 \text{ CH}_3 \text{ CH}_3 \\ \quad \quad \\ \text{CH}_3 - \text{C} - \text{C} - \text{C} - \text{C}_4\text{H}_9 \\ \quad \quad \\ \text{CH}_3 \text{ CH}_3 \text{ OH (I)} \end{array}$	9.8	108-108.5 (58)	1.4611	0.8778	76.51, 76.61	13.88, 13.98	10.1	$\text{C}_{11}\text{H}_{24}\text{O}$	76.67	14.04	9.87
$\begin{array}{c} \text{CH}_3 \text{ CH}_3 \text{ CH}_3 \\ \quad \quad \\ \text{CH}_3 - \text{C} - \text{C} - \text{C} - \text{C}_3\text{H}_7\text{-n} \\ \quad \quad \\ \text{CH}_3 \text{ CH}_3 \text{ OH (II)} \end{array}$	12.5	153-154 (85)	1.4608	0.8772	77.40, 77.36	14.09, 13.97	9.12	$\text{C}_{12}\text{H}_{26}\text{O}$	77.35	13.99	9.12
$\begin{array}{c} \text{CH}_3 \text{ CH}_3 \text{ CH}_3 \\ \quad \quad \\ \text{CH}_3 - \text{C} - \text{C} - \text{C} - \text{C}_4\text{H}_9\text{-n} \\ \quad \quad \\ \text{CH}_3 \text{ CH}_3 \text{ OH (III)} \end{array}$	19.6	124-126 (15)	1.4616	0.8763	78.14, 78.00	14.21, 14.15	8.42	$\text{C}_{12}\text{H}_{26}\text{O}$	77.93	14.09	8.51
$\begin{array}{c} \text{CH}_3 \text{ CH}_3 \text{ CH}_3 \\ \quad \quad \\ \text{CH}_3 - \text{C} - \text{C} - \text{C} - \text{C}_5\text{H}_{11}\text{-n} \\ \quad \quad \\ \text{CH}_3 \text{ CH}_3 \text{ OH (IV)} \end{array}$	21.3	130-132 (18)	1.4615	0.8751	78.77, 78.71	14.28, 14.30	8.20	$\text{C}_{14}\text{H}_{30}\text{O}$	78.43	14.11	8.12
$\begin{array}{c} \text{CH}_3 \text{ CH}_3 \text{ CH}_3 \\ \quad \quad \\ \text{CH}_3 - \text{C} - \text{C} - \text{C} - \text{CH} - \text{CH}_3 \\ \quad \quad \quad \\ \text{CH}_3 \text{ CH}_3 \text{ OH CH}_3 \text{ (V)} \end{array}$	4.1	229-231 (755)	1.4667	0.8886	77.21, 77.15	14.03, 13.96	10.2	$\text{C}_{12}\text{H}_{26}\text{O}$	77.35	13.98	9.12

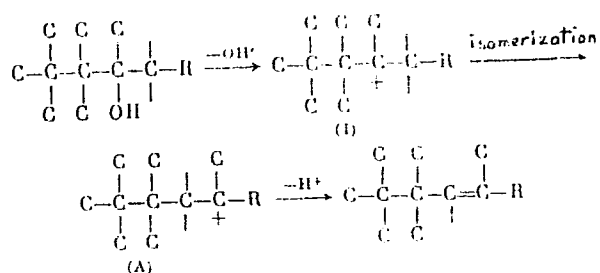
Card 4/7

Reaction of 2,2,3,3-Tetramethylpentanone-4
With Alkylolithium

77053

SOV/79-30-2-4/78

Dehydration over copper sulfate at 130-140° (Moersch, G., Whitmore, F., J. Am. Chem. Soc., 63, 2033 (1941)) leads to formation of olefins (specific weight 0.79-0.80) and temperatures of solidification below -108°. Ozonolysis of the products, however, has shown that dehydration is accompanied by isomerization:

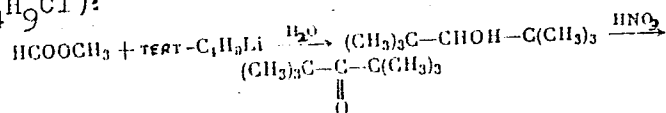


rd 5/7

Reaction of 2,2,3,3-Tetramethylpentanone-4
With Alkylolithium

77553
SOV/79-30-2-4/78

Hexamethylacetone, used as starting material for preparation of 2,2,3,3-tetramethylpentanone-4 was prepared by a new method, which gave 62-67% yield (based on tert-C₄H₉Cl):



Tert-C₄H₉Li was obtained by the method of Bartlett (Bartlett, P. D., Friedmann, S., Stiles, M., J. Am. Chem. Soc., 75, 1771 (1953)). Bi-tert-butylcarbinol was obtained by slow (3 hr) addition of HCOOCH₃ to tert-C₄H₉Li at -40°, followed by 2 hr of mixing at the same temperature, and was distilled at 165-167°. Oxidation was performed by dropwise addition of concentrated nitric acid to the boiling (under reflux) alcohol. There are 2 tables; and 15 references, 2 Soviet, 1 U.K., 12 U.S. The 5 most recent U.K. and U.S. references are: M. S. Kharasch, Ju Cheng. Lin,

Card 6/7

Reaction of 2,2,3,3-Tetramethylpentanone-4
With Alkylolithium

77853
S07/79-30-2-4/78

W. Rudenberg, J. Org. Ch., 19, 1150 (1954);
P. D. Bartlett, M. Stilles, J. Am. Chem. Soc., 77,
2806 (1955); S. Barton, C. R. Portor, J. Chem. Soc.,
1956, 2483; H. D. Zook, W. E. Surith, I. L. Greene,
J. Am. Chem. Soc., 79, 4436 (1957); P. D. Bartlett,
S. Friedmann, M. Stiles, J. Am. Chem. Soc., 75,
1771 (1953).

ASSOCIATION: Institute of Organic Chemistry of the Academy of
Sciences, USSR (Institut organicheskoy khimii Akademii
nauk SSSR)

SUBMITTED: February 12, 1959

Card 1/7

AKIF'YEVA, K. V.; BELINSKIY, V. A.; BRYUKHANOV, A. V.; VLADIMIROVA,
G. A.; MAKHOVA, Yu. V.; MALINOVSKAYA, N. M.; MYAGKOV, S. M.;
NORMAN, E. A.; SEMEKHIN, Yu. V.; TARASOV, G. K.; TUSHINSKIY,
G. K.; UTYAKOV, P. A.; FAMINTSYN, B. M.; SHATERNIKOVA, I. S.;
SHANSHIYEV, K. M.

Estimation of the danger of avalanches in high mountain areas
designated for development. Inform. sbor. o rab. Geog. fak.
Mosk. gos. un. po. Mezhdunar. geofiz. godu no.8:27-163 '62.
(MIRA 16:1)

(Caucasus--Avalanches)

SEHENKO, A. H.

Cucumbers

Advanced experimentation with the cultivation of cucumber seeds. Sad i og., no. 3, 1952

Monthly List of Russian Accessions. Library of Congress, May 1952. UNCLASSIFIED.

SEMENKO, A. M. Cand Agr Sci -- (diss) "Murom cucumbers and ~~the~~ grade-improving work with them." Mos, 1959. 18 pp (Mos Order of Lenin Agr Acad im K. A. Timiryazev), 110 copies (KL, 46-59, 139)

51
-52-

SEMENKO, A.M.

Improving Murom cucumbers. Agrobiologiya no.4-519-526 JI-Ag '59.
(MIRA 12:10)

1.Gribovskaya ovoshchnaya selektsionnaya opytnaya stantsiya,
Moskovskaya oblast'.
(Cucumber--Varieties)

SEMENKO, B.A., inzh.; PLASTININA, I.G., inzh.

Effective means of keeping dust down on roads in open pits. Gor. zhur
no.4:68-69 Ap '63. (MIRA I6:4)

1. Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut mednoy
promyshlennosti, Sverdlovsk.

(Mine dusts—Prevention)

RACHINSKIY, Vladimir Vatslavovich; SEMENKO, E.I., red.

[Introduction to the general theory of the dynamics of sorption and chromatography] Vvedenie v obshchuiu teoriyu dinamiki sorptsii i khromatografii. Moskva, Izd-vo "Nauka," 1964. 136 p. (MIRA 17:8)

SEMENKO, F.

Under the same management. Nauka i pered. op. v sel'khoz. 8
no.4:7-8 Ap '58. (MIRA 11:5)

1. Predsedatel' kolkhoza imeni Kirova, Pereshchepinskogo rayona,
Depropetrovskoy oblasti.
(Repair and supply stations)

AUTHOR: Semenko, F. F., Mining Engineer SOV/127-59-1-23/26
TITLE: A Device for the Pneumatic Stemming of Blast Holes
(Apparat dlya pnevmaticheskoy zaboyki shpurov)
PERIODICAL: Gornyy zhurnal 1959, Nr 1, p 76 (USSR)
ABSTRACT: A pneumatic device for stemming blast holes was developed
by F. F. Semenko and A. P. Molchanov in Moscow Metrostroy.
There is 1 diagram and 1 table.
ASSOCIATION: Upravleniye Mosmetrostroya (Management of the Mosmetrostroy).

Card 1/1

SEMENKO, G., polkovnik, voyenny letchik pervogo klassa

Too high an evaluation of a flight and its consequences.

Av. i kosm. 48 no.12:43-47 D '65. (MIRA 18:11)

Semenko, G.

AID P - 2652

Subject : USSR/Aeronautics

Card 1/1 Pub. 135 - 7/17

Author : Semenko, G., Lt. Col. and Komotskiy, R., Maj. Eng.

Title : ~~USSR/Aeronautics~~ Piloting aircraft by an artificial horizon

Periodical : Vest. vozd. flota, 9, 41-48, S 1955

Abstract : The authors describe the operation on modern aircraft two artificial horizons, AGI-1 for fighters and AGB-1 for bombers. Various flying conditions are considered and errors of indications discussed. They suggest also alternate instruments to be used in case of artificial horizon failure. Names are mentioned. Diagrams.

Institution : None

Submitted : No date

AID P - 4619

Subject : USSR/Aeronautics - aerobatics

Card 1/1 Pub. 135 - 8/23

Author : Semenko, G. G., Lt. Col., Pilot Class I

Title : Training of pilots in aerobatics on jet fighters

Periodical : Vest. vozd. flota, 4, 40-46, Ap 1956

Abstract : The execution of various aerobatic maneuvers in "MiG" type aircraft are described in detail. Five sketches.

Institution : None

Submitted : No date

SEMENKO, G. G.

AID P - 5429

Subject : USSR/Aeronautics - training

Card 1/1 Pub. 135 - 6/31

Author : Semenko, G. G., Lt. Col., mil. pilot class I

Title : Peculiarities of piloting technique at low altitudes

Periodical : Vest. vozd. flota, 1, 31-35, Ja 1957

Abstract : The author describes how in the interest of successful execution of various combat missions at low altitudes the fighter pilot must be adequately trained in piloting his aircraft whether flying individually or in formation both in daytime or at night. Particular attention is paid to the straight-in approaches for landing. One photo. The article merits attention.

Institution : None

Submitted : No date

SEMENKO, G.G.

86-11-10/31.

AUTHOR: Semenکو, G. G., Lt Col , Mil Pilot First Class
TITLE: Selection of an Area for Instrument Flights (Vybor zony poletov po priboram)
PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Nr 11, pp. 38-40 (USSR)
ABSTRACT: In this article the author describes briefly how to organize instrument-flying training flights at the airfield and along a route, if for some reason no special areas for instrument flights are available. The article is illustrated by 3 diagrams.
AVAILABLE: Library of Congress

Card 1/1

85-57-12-13/29

AUTECR: Samento, G. Lieutenant Colonel

TITLE: Landing a Jet Airplane (Posadka reaktivnogo samoleta)

PERIODICAL: Koyl'ya rodiny, 1957, Nr 12, pp 14-15 (USSR)

ABSTRACT: The author describes in detail how a jet plane should be landed. He uses the Mig-15 as an example. There are 2 sketches.

AVAILABLE: Library of Congress

Card 1/1 1. Airplanes-Landing

TELKOV, I.I., voyennyy letchik pervogo klassa polkovnik; SEMENKO, G.G.
voyennyy letchik pervogo klassa.

Upward and downward penetration of clouds with fighter planes
at optimal speeds. Vest. Vozd. Fl. 40 no.9:31-38 S '57.

(MIRA 11:1)

(Fighter planes--Piloting)

86-58-4-11/27

AUTHOR: Semenko, G. G., Lt Col

TITLE: Piloting a Fighter Airplane at Night (Pilotirovaniye istrebitelya noch'yu)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 4, pp 35-40 (USSR)

ABSTRACT: In this article the author discusses the special features of piloting a fighter airplane at night and describes in detail the sequence of training of fighter pilots in night flying.

AVAILABLE: Library of Congress

1. Night fighters - Training
2. Night fighters - USSR
3. Pilots - Training

Card 1/1

SEMENKO, G.G., polkovnik, voyenny letchik pervogo klassa

The hero teaches how to fly under bad weather conditions. Vest.Vozd.Fl. no.2:26-29 F '60.
(MIRA 13:7)

(Flight training)

SEMENKO, G.G., polkovnik, voyenny letchik pervogo klassa

The pilot flies within the training zone. Vest. Vozd.Fl. :
no.2:41-47 F '61. (MIRA 14:7)
(Flight training)

SEMENKO, G.G., polkovnik, voyenny letchik pervogo klassa

If a flight is in the air. Vest.Vozd.Fl. no.6:26 Ja '61.
(MIRA 14:8)

(Flight training)

SEMENKO, G.G., polkovnik, voyenny letchik pervogo klassa

Aerial target location in the stratosphere. Vest.Vozd.Fl. no.7:35-
37 JI '61. (MIRA 14:8)

(Russia--Air force--Target practice)

SEMENKO, G.G., polkovnik, voyenny letchik pervogo klassa

Instructors' skills. Vest. Vozd. Fl. no.10:66-68 O '61.
(MIRA 15:2)

(Flight training)

SEMENKO, G., polkovnik, voyenny letchik pervogo klassa

Readiness of a pilot. Av. i kosm. 45 no.6:54-57 '62.
(MIRA 15:10)

(Flight training)

SHARLAY, R.I., professor; SEMENKO, I.F.

Effect of convallósíde on cardiovascular insufficiency. Terap.
arkh.27 no.4:51-55 '55. (MLRA 8:10)

1. Iz gosptal'noy terapevticheskoy kliniki (zav.-prof. E.I.
Sharlay) Khar'kovskogo meditsinskogo instituta.

(CONVALLARIA,
convallósíde, ther. of cardiovasc. dis.)
(CARDIOVASCULAR DISEASES, therapy,
convallósíde)
(CARDIAC GLYCOSIDES, therapeutic use,
convallósíde in cardiovasc.dis.)

SEMENKO, I. F. Cand Med Sci -- (diss) "On the Pharmacological and
Therapeutic Effect of Convalloside." Khar'kov, 1957. 10 pp 21 cm.
(Min of Health Ukrainian SSR, Khar'kov State Medical Inst),
200 copies (KL, 25-57, 119)

- 14⁷ -

KONONENKO, V.Ya.; SEMENKO, I.F., kand.med.nauk

Effect of sodium thiosulfate on the clinical course of hypertension
and the content of adrenal substances in the blood. Vrach.delo
no.8:28-31 Ag '62. (MIRA 15:11)

1. Kafedra propedevtiki vnutrennikh bolezney (zav. - dotsent
Z.A.Tkachenko) i kafedra biologicheskoy khimii (zav. -- dotsent K.A.
Drel') Luganskogo meditsinskogo instituta.
(SODIUM THIOSULFATE) (HYPERTENSION) (ADRENAL GLANDS)

SMIRNITSKAYA, N.Ye.; GRITSAY, N.I.; SEMENENKO, I.I.; MERKIN, D.A.,
prof., doktor fiz.-mat. nauk, red.

[Experience in the production of salt-cured bacon] Opyt
proizvodstva solenogo bekona. Moskva, Tsentr. in-t nauchno-
tekhn. informatsii pishchevoi promyshl., 1962. 44 p.
(MIRA 17:7)

SEMENKO, M.

6810. Semenko, M. i Baran, N. Za vysokiye urozhai ozimoy pshenitsy
i rzhi, (Iz opyta kolkhozov L'vovskoy obl.) L'vov, Kn.-zhrn. izd.,
1954. 56s. 20 sm. (Peredovoy opyt--vsem kolkhozam). 5.000 ekz. 75k.-
Na ukr. yaz.-(55-2222) 633.1 st (47.743)

SO: knizhnaya Letopis' No. 6, 1955

SEMENKO, M. G.

MT V Hydrolysis of pentosans from cotton hulls, sunflower hulls, corn husks, and beech sawdust. A. P. Zakoshchikov, Z. M. Potyugallo, M. G. Semenko, and O. P. Suravov. *Gidroliz i Lesokhimi. Problemy*, No. 4, 9-11 (1958). Cotton hulls (I), sunflower hulls (II), corn husks (III), and beech sawdust (IV) were boiled in 0.3% H_2SO_4 soln. for 20 min. (the ratio of the material to the soln. was 1:10), washed, dried, and hydrolyzed by boiling in 0.5 and 2.0% H_2SO_4 soln. for 1 hr. at atm. pressure. I, II, III, and IV, resp., contained 20.3, 24.1, 38.6, and 24.8% of easily hydrolyzable polysaccharides, of which 20.2, 30.5, 35.0, and 29.2% were pentosans; 39.2, 41.6, 19.9, and 45.8% of difficultly hydrolyzable polysaccharides; 5.13, 6.85, 5.66, and 4.50% of uronic acids; 3.89, 2.69, 2.40, and 0.5% of proteins. II and IV contained about 20% of pentosans that did not hydrolyze readily. In III some hexoses dissolved together with pentosans. The yields of fermentable sugars were with 0.3% H_2SO_4 3.21, 1.26, 4.16, and 1.33%; with 2.0% H_2SO_4 , 13.85, 7.00, 18.59, and 7.44% based on pentosans; 0.5% H_2SO_4 gave 25.4, 69.2, 15.2, and 21.2%; and 2.0% H_2SO_4 , 12.5, 10.8, 10.2, and 7.4% of uronic acids. Pentosans in II and I hydrolyzed rapidly, but the reaction was slower with IV and III. The relative content of uronic acids in the hydrolysis of II, after attaining the max. yield of 22-24%, has remained the same, but more volatile acids were formed on treatment with 2% H_2SO_4 . It has been assumed that these acids form esters with polyuronides. The time of reaction and the concn. of the acid are the main factors influencing the rate and degree of hydrolysis. The yield was highest with III and the lowest with II in regard to both time and strength of the acid. T. Jurcic

(3)

FRIDMAN, G.Ye. (Moskva); KARAVAYEV, N.M. (Moskva); SEMENKO, M.G. (Moskva);
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Investigating the chemical composition of carbohydrate fraction
of shale oil and catalysates. Izv.AN SSSR.Otd.tekh.nauk.Met.i topl.
no.5:155-163 S-0 '61. (MIRA 14:10)
(Coal tar products--Analysis)

SEMENKO, M.I., inzh.

Position of the blasting cartridge in a core charge. Bezop.truda.
v prom. 4 no.10:30-31 0 '60. (MIRA 13:11)

1. Zaveduyushchiy vzryvnymi rabotami rudoupravleniya im. Dzerzhin-
skogo, g.Krivoy Rog.
(Blasting)